

U.S. Patent Appln. S.N. 10/069,145  
AMENDMENT

PATENT

**IN THE CLAIMS:**

Please cancel claim 14 and amend claims 8-10, 12 and 15, as shown below in the detailed listing of all claims which are, or were, in the application:

Claims 1-7 (Canceled)

8. (Currently amended) A composition for controlled release of a biologically active agent from a carrier, said composition ~~comprising~~ consisting essentially of a biologically active agent which is heparin or a related biologically active acidic polysaccharide, and a carrier which is a sol-gel derived silica xerogel, wherein the xerogel is derived from a tetraalkoxysilane and part of the tetraalkoxysilane is replaced by an ~~organommodified~~ alkylsubstituted alkoxysilane, and wherein said composition is biodegradable.

9. (Currently amended) The composition of claim 8, wherein said tetraalkoxysilane is tetraethoxysilane (TEOS), ~~and said organommodified alkoxysilane is an alkylsubstituted alkoxysilane.~~

U.S. Patent Appln. S.N. 10/069,145  
AMENDMENT

PATENT

10. (Currently amended) The composition of ~~claim 9~~ claim 8, wherein said alkylsubstituted alkoxysilane is a member selected from the group consisting of methyltriethoxysilane (METES), dimethyldiethoxysilane (DMEDES) and ethyltriethoxysilane (ETES).

11. (Previously presented) The composition of claim 8, wherein said biologically active agent is heparin and which is present in an amount of 5 to 30 weight percent, calculated on the air dried xerogel.

12. (Currently amended) A method for the preparation of a composition of claim 8, consisting essentially of

- a) hydrolysing an alkoxysilane and an organomodified alkyl substituted alkoxysilane in the presence of a catalyst,
- b) optionally adjusting the pH to a value suitable for the biologically active agent,
- c) adding the biologically active agent,
- d) allowing the hydroxysilane to polymerize, and optionally
- e) removing water and alcohol formed in the hydrolyzation from the mixture.

U.S. Patent Appln. S.N. 10/069,145  
AMENDMENT

**PATENT**

13. (Previously presented) The method of claim 12, wherein the alkoxysilane is a tetraalkoxysilane.

14. (Canceled)

15. (Currently amended) The method of ~~claim 14~~ claim 12, wherein said alkylsubstituted alkoxysilane is at least one member of the group consisting of methyltriethoxysilane (METES), dimethyldiethoxysilane (DMDES) and ethyltriethoxysilane (ETES).

16. (Previously presented) The method of claim 12, wherein nitric acid or acetic acid is used as a catalyst.